

AIM Ann Report
1888 to 1889

REPORT

OF THE

Auckland Institute

AND

MUSEUM

FOR 1888-89.

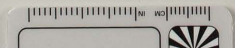
*Adopted at the Annual Meeting, held on
February 18th, 1889.*

Auckland:

WILSONS AND HORTON, PRINTERS, QUEEN AND WYNDHAM STS.

MDCCLXXXIX.

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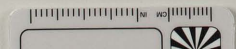
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OFFICERS
OF THE
AUCKLAND INSTITUTE.

President:

J. MARTIN, Esq., F.G.S.

Vice-Presidents:

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TEBBS, Rev. W.

Trustees:

MACRECHNIE, E. A., Esq. PEACOCK, T., Esq., M.H.R.
SMITH, S. P., Esq., F.R.G.S.

Secretary and Treasurer:

T. F. CHEESEMAM, Esq., F.L.S., F.Z.S.

Auditor:

J. REID, Esq.

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THE FOLLOWING

Magazines and Periodicals

ARE CIRCULATED AMONGST THE MEMBERS:—

Quarterly Journal of Microscopical Science

The Ibis

Nature

Geological Magazine

Lancet

Scientific American

The Academy

Knowledge

Botanical Magazine

Gardeners' Chronicle

Chemical News

Engineering

Science Gossip

Electrical and Telegraphic Review

Journal of the Society of Arts

Annals and Magazine of Natural History

New Zealand Medical Journal

REPORT.

THE Council have now the pleasure of submitting to the members their twenty-first Annual Report on the progress of the Institute, and its financial and general condition.

Members.—The number of members on the roll of the Institute at the present time is 232. Eight new members have been elected during the year, a number considerably under the average. On the other hand, thirty names have been removed from the roll; five from death, sixteen from resignation, and nine in consequence of non-payment of subscription for two consecutive years. Among the deaths the Council are sorry to have to include the name of the Hon. James Williamson, whose liberal donation of £500 towards the erection of the present Museum Buildings will long be remembered.

Finance.—The following synopsis of the balance sheets appended to the report will be useful in conveying a proper idea of the financial position of the Institute. The total revenue of the general account has been £970 10s., as against £962 5s. 1d. received in 1887. The members' subscriptions have yielded £171 3s. The receipts from the invested funds of the Costley bequest have been £591 0s. 6d. As it was found expedient to slightly reduce the rate of interest on the investments, this sum is somewhat under the amount for 1887. From the Museum Endowment £157 9s. 9d. have been received, being partly composed of rents that had been accumulating in the hands of the Government for some time, and which were paid over just before the last annual meeting, and partly of interest on the investments of the endowment. The expenditure has been kept as low as possible, and has amounted to £888 18s. 6d., leaving a balance of £81 11s. 6d. in the Bank of New Zealand. With respect to the landed endowment of the Museum there is little to report. Only one sale has been effected during the year, and the purchase money is still in the hands of the Government. At the present time it is so difficult to dispose of country lands to advantage that the capital amount of the endowment is not likely to be quickly realized.

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Meetings.—Thirteen meetings have been held during the session. The following is a list of the papers read:—

1. Inaugural Address:—By the President, S. PERCY SMITH, F.R.G.S.
2. The Realms of Imagination:—By the Rev. E. H. GULLIVER, M.A.
3. Notice of the Occurrence of the Shy Albatross near Auckland:—By T. F. CHEESEMAM, F.L.S.
4. The Habits and Home of the Wandering Albatross:—By A. REISCHEK, F.L.S.
5. Poor Relief:—By the Rev. W. TEBBS.
6. Electrolysis:—By Prof. F. D. BROWN.
7. Descriptions of new species of Beetles from Te Aroha:—By Capt. T. BROWN.
8. On the Geology of Tongariro and the Taupo District:—By Prof. A. P. THOMAS, F.L.S.
9. Notes on the Islands to the South of New Zealand:—By A. REISCHEK, F.L.S.
10. The Chemistry of Agriculture:—By J. A. POND.
11. On the Botany of Moehau Mountain, Cape Colville:—By JAMES ADAMS, B.A.
12. Darwinism tested by Logic:—By R. H. BAKEWELL, M.D.
13. Micro-organisms and their influence on every-day Life:—By Prof. A. P. THOMAS, F.L.S.
14. On some Birds from the Kermadec Islands:—By T. F. CHEESEMAM, F.L.S.
15. On the visit of Captain Cook to Poverty Bay and Tologa Bay:—By Archdeacon W. L. WILLIAMS.
16. Optics:—By A. CHALLINOR PURCHAS, M.D.
17. On a new species of *Gasteracantha* from Norfolk Island:—By A. T. URQUHART.
18. New species of Spiders:—By A. T. URQUHART.
19. On the Mechanical Description of a Straight Line by means of Link-work:—By Prof. W. S. ALDIS.
20. On the Occurrence of Tellurium in the lodes of the Upper Thames:—By J. A. POND.
21. On the School of Agriculture, Lincoln:—By A. GRAY.
22. Scientific Methods of Modern Pharmacology:—By T. G. DAVY, M.D.

23. On the Volcanic Rocks of Tongariro and the Taupo District:—By Prof. A. P. THOMAS, F.L.S., and J. A. POND.
24. On the Manganese Deposits of Auckland:—By J. A. POND.
25. Notes on the Waikato Lake Basins:—By L. CUSSEN.

Most of these papers have been forwarded to Wellington, with the view of a selection being made for the next volume of Transactions. In connection with this subject, it may be mentioned that the Council have suggested to the Manager of the Institute that it would be well to afford authors an opportunity of correcting the proofs of their papers before the final printing, and it was promised that the matter should be considered by the Board of Governors. Up to the present time, however, no official communication in reference thereto has been received.

Museum.—The Museum has been kept open to the public during the whole of the twelve months, with the exception of a fortnight devoted to the usual annual cleaning and re-arrangement of specimens. No exact statistics as to the number of visitors on the weekdays can be given; but from occasional countings it is believed that the daily average has been about 70, which would give a total of 21,910. On Sunday afternoons the visitors have been regularly counted, the total for the year being 7,280, or an average of 140 for each Sunday. The total attendance for the whole year may thus be estimated at 29,190, being a decrease of 3,177 on the estimated number for the previous year.

Many valuable additions have been made to the collections during the year. The most interesting is a set of Bornean Mammals purchased from Mr. C. F. Adams, formerly employed as taxidermist to the Museum. Among other things, it includes an unusually large specimen of an adult male orang-utan, and some of the other monkeys peculiar to the Malay Archipelago. It is hoped that arrangements may soon be made for having this collection mounted and placed on exhibition, for it would add much to the attractiveness of the Museum as a place of public resort. A valuable exchange has also been received from the Florence Museum, consisting of skins of birds and mammals, and alcoholic specimens of reptiles and deep sea fishes. The Council would also direct attention to a large and interesting collection of ethnological specimens from the Admiralty Islands, New Britain, and New Ireland, purchased from Mr. G. F. Stuart, late American Vice-Consul for Northern Melanesia. Numerous donations and minor additions have been received, for particulars of which reference should be made to the appended lists.

The following are the principal changes made in the Museum during the year. The whole of the ethnological specimens have been re-arranged and re-labelled, and the collection purchased from Mr.

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Stuart placed on exhibition. A set of New Zealand minerals, ores, and rock specimens has been selected, and arranged in the table-cases in the north gallery. Although at present incomplete, it is frequently referred to by miners and others interested in the development of our mineral resources, and should be added to as quickly as possible. The foreign and New Zealand shells have been placed in new cases erected in the main hall, where they receive a better light than in their old position. A collection of New Zealand Coleoptera, purchased from Captain Broun, has been arranged by him for exhibition with explanatory labels drawing attention to the habits, etc., of the different families.

The Council much regret that they have been unable to do anything towards the enlargement of the Museum, now very urgently required. But, as pointed out in the report for last year, it would be unsafe to expend any considerable proportion of the Costley bequest for building purposes until a sufficient amount of the capital of the Museum endowment has been realized and invested, and the proper maintenance of the Museum thus secured.

Library.—Early in the year the Council determined to apply a sum of £130 to the purchase of books, and an order for that amount was forwarded to Mr. Quaritch, of London. With the exception of a few scarce publications which could not be obtained at the time, the order has been completed, and the books are now on the shelves of the Library. A full list will be found in another part of the Report, from which it will be seen that care has been taken to make as comprehensive and varied a selection as the funds at the disposal of the Council would allow. The usual exchanges and presentations from Scientific Societies have been received, together with some donations from private individuals. The Council are specially indebted to Mr. Campbell, U.S. Consul, for making arrangements with his Government for supplying certain well-known serial publications as they are issued.

Thanks.—In concluding the Report, the Council have to convey the thanks of the Institute to the numerous donors to the Museum and Library whose names are given in the appended list; also to Messrs. W. K. Graham and Co., and Mr. Hugh Craig, for their services as agents of the Institute in London and San Francisco respectively.

The Treasurer in Account with the Auckland Institute.

FEBRUARY 15, 1888, TO FEBRUARY 6, 1889.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, February 15, 1888	4	2	3	Books, Periodicals, Binding	166	16	5
Entrance Fees and Subscriptions	171	3	0	Additions to Museum	115	9	8
Rents	46	14	6	Museum Requisites	34	16	4
Interest from Costley Bequest	591	0	6	Printing, Advertising, Insurance, Gas, Stationery,			
Rents and Profits transferred from Museum Endowment Account	157	9	9	Postages, etc.	138	3	7
				Salaries	393	16	8
				Draft to London Agent	14	5	0
				Fencing	10	11	0
				Miscellaneous	14	19	10
				Balance in Bank of New Zealand, February 6, 1889	81	11	6
	£970	10	0		£970	10	0

February 6, 1889.

T. F. CHEESEMAM, TREASURER.

Examined and found correct,

JAMES STEWART, AUDITOR.

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INVESTMENT FUND ACCOUNT.

FEBRUARY 15, 1888, TO FEBRUARY 6, 1889.

	£	s.	d.		£	s.	d.
Balance in Auckland Savings Bank, February 15, 1888	136	1	6	Balance in Auckland Savings Bank, February 6, 1889	142	17	6
Interest to December 31, 1888	...	...	6 16 0				
	<u>£142</u>	<u>17</u>	<u>6</u>		<u>£142</u>	<u>17</u>	<u>6</u>

MUSEUM ENDOWMENT ACCOUNT.

FEBRUARY 15, 1888, TO FEBRUARY 6, 1889.

	£	s.	d.		£	s.	d.
Balance in Bank of New Zealand, February 15, 1888	496	7	8	Invested in Mortgage on Freehold Security ...	270	0	0
Interest on Investments, Rents, etc.	...	...	21 15 6	Lodged in Auckland Savings Bank ...	80	0	0
				Rents and Profits transferred to General Account	157	9	9
				Balance in the Bank of New Zealand, February 6, 1889	10	13	5
	<u>£518</u>	<u>3</u>	<u>2</u>		<u>£518</u>	<u>3</u>	<u>2</u>

February 6, 1889.

T. F. CHEESEMAM, TREASURER.

Examined and found correct,

JAMES STEWART, AUDITOR.

INVESTMENTS OF THE AUCKLAND INSTITUTE.

	£	s.	d.
COSTLEY BEQUEST—			
On Mortgage on Freehold Security at 6 per cent. ...	7,000	0	0
On Mortgage on Freehold Security at 6½ per cent. ...	650	0	0
Deposited with Industrial and Provident Building Society at 6 per cent.	1,000	0	0
Deposited with Industrial and Provident Building Society at 5 per cent.	550	0	0
NATHAN BEQUEST—			
Deposited in Auckland Savings Bank at 5 per cent. ...	105	16	8
MUSEUM ENDOWMENT—			
On Mortgage on Freehold Security at 7 per cent. ...	900	0	0
On Mortgage on Freehold Security at 7 per cent. ...	270	0	0
Deposited in Auckland Savings Bank at 5 per cent. ...	83	6	8
INVESTMENT FUND FOR LIFE SUBSCRIPTIONS—			
Deposited in Auckland Savings Bank at 5 per cent. ...	142	17	6
TOTAL INVESTMENTS	£10,702	0	10

Examined and found correct—

JAMES STEWART,
AUDITOR.

T. F. CHEESEMAN,
TREASURER.

February 6, 1889.

ADDITIONS AND DONATIONS

TO THE
LIBRARY AND MUSEUM.

- Colonial Museum and Laboratory Report for 1887-88; Meteorological Report for 1885. The Director of the Geological Survey.
- Parliamentary Papers and Reports; New Zealand Hansard for 1888; New Zealand Statutes for 1888; New Zealand Statistics. The New Zealand Government.
- Statistics of Tasmania for 1887; Walch's Tasmanian Almanac. The Colonial Secretary, Tasmania.
- Victorian Year-book for 1887-88, Vols. I. and II. The Government Statist, Victoria.
- McCoy's Prodomus of the Zoology of Victoria, Decades 16 and 17; Report of the Royal Commission on Vegetable Products. The Chief Secretary, Victoria.
- Journal of the Royal Society of Victoria, Vol. XXIV.; Transactions, Vol. I. Part I. The Society.
- Journal of the Royal Society of New South Wales, Vol. XXII. The Society.
- Journal of the Linnean Society of New South Wales, parts of Vol. III., new series. The Society.
- Annual Report and other publications of the Department of Mines, New South Wales. The Department.
- Transactions of the Royal Society of South Australia, Vol. X. The Society.
- Report of the Agricultural and Horticultural Society of South Australia for 1877-78. The Society.
- Proceedings of the Royal Society of Queensland. The Society.
- Official Gazette of the United States Patent Office; United States Consular Reports. The United States Government.
- Third and Fourth Report of the United States Entomological Commission; Bulletins No. 11 to 16. The Government Entomologist, Washington, U.S.A.
- Report of the Smithsonian Institution for 1885, Part II. The Smithsonian Institution.
- Proceedings of the American Association for the Advancement of Science, for 1887. The Association.
- Report of the Geological Survey of Minnesota for 1886; Bulletins of the same, Nos. II, III, IV. The Geological Survey.
- Report of the Geological Survey of Canada, for 1886-87.
- Macoun's Catalogue of Canadian Plants. The Geological Survey.
- Annals of the National Museum of Costa Rica. The Museum.
- Bulletin de la Société Académique Indo-Chinoise de France 1882-83. The Society.
- Bulletin of the Italian Entomological Society. Prof. H. H. Giglioli.
- Proceedings of the Royal Colonial Institute, Vol. XX. The Institute.
- Journal of the Society of Arts for 1888. The Society.
- Brunton's Text-book of Pharmacology. Dr. Davy.
- Hirsch's Handbook of Geographical and Historical Pathology, 3 vols. Dr. Bakewell.
- Rowell's Electric Meteorology, and the Cause of Rain. The Author, per Mr. G. Graham.
- Report on the Eruption of Tarawera, by Prof. Thomas. The Author
- Insect Life, Nos. 1 to 6. W. F. Lawry.
- Fairburn's Ships of Tarshish. J. F. Leighton.
- Stories of Bank's Peninsula. C. Cuff.
- Early Proclamation of Governor Hobson. H. Steele.
- Alterland Gazette, printed on board the ship "Matilda Wattenbach. S. Johnson.

BOOKS PURCHASED.

- Dutton's Tertiary History of the Grand Canon of Colorado, with Atlas Plates.
 Becker's Geology of the Comstock Lode and the Washoe District.
 Lord's Comstock Mining and Miners.
 Irving's Copper-bearing Rocks of Lake Superior.
 William's Mineral Resources of the United States.
 Curtis' Silver-Lead Deposits of Eureka, Nevada.
 Fourth Annual Report of the U.S. Geological Survey, 1882-83.
 Cook's Survey of Lake Lahoutan.
 United States Census Reports, Vol. X. Special Reports on Petroleum, Coke, and Building Stones.
 Phillips' Vesuvius.
 Phillips' Elements of Metallurgy.
 Percy's Metallurgy of Silver and Gold.
 Woodward's Geology of England and Wales.
 Teall's British Petrography.
 Hunt's British Mining.
 Callan's Lectures on Mining, 3 vols.
 Andre's Mining Machinery, 3 vols.
 Davies' Metalliferous Minerals and Mining.
 Richard's Aluminium.
 Bary's Comparative Anatomy of Phanerogams and Ferns.
 Goebel's Outlines of Classification and Special Morphology of Plants.
 Sach's Lectures on the Physiology of Plants.
 Bary's Comparative Morphology of Fungi, Mycetozoa, and Bacteria.
 Behren's Microscope in Botany.
 Sargent's Report on the Forests of North America.
 Jackson's Vegetable Technology.
 Andre's Parks and Gardens.
 Boulenger's Catalogue of the Lizards in the British Museum, 3 vols.
 Lyddeker's Catalogue of the Fossil Mammalia in the British Museum, 5 vols.
 Catalogue of the Birds in the British Museum, Vols. XI, XII, and XIV.
 Packard's Guide to the Study of Insects.
 Curtis' Farm Insects.
 Saunder's Insects Injurious to Fruit.
 Miss Ormerod's Annual Reports on Injurious Insects.
 Maitland's History of Howietoun.
 Tryon's Manual of Conchology, Vol. I.
 Ayrton's Practical Electricity.
 Roscoe and Schorlemmer's Treatise on Chemistry, Vol. III., Parts 1 to 4.
 Storer's Agriculture in its Relation to Chemistry, 2 vols.
 Naegeli's Microscope in Theory and Practice.
 Supplement to Spon's Dictionary of Engineering, 3 vols.
 Nasmyth's Moon.
 Ball's Story of the Heavens.
 Lockyer's Chemistry of the Sun.
 Klein's Micro-organisms and Disease.
 Kapp's Electrical Transmission of Energy.
 Thudichum's Varieties of Wine.
 Narrative of the Challenger Expedition. Vol. I.
 Transactions and Proceedings of the Royal Society.
 Quarterly Journal of the Geological Society.
 Journal of the Royal Agricultural Society.
 Journal of the Royal Geographical Society.
 Journal of the Chemical Society.
 Hochstetter's Rotomahana.
 Tucker's Life of Selwyn, 2 vols.
 Penny's Melanesia.
 Churchyard's My Consulate in Samoa.

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Tasman's Journal.
 Payton's Round About New Zealand.
 Bradshaw's New Zealand of To-day.
 Guppy's Solomon Islands and their Natives.
 Guppy's Solomon Islands and their Geology.
 Gisborne's New Zealand Rulers and Statesmen.
 Gisborne's New Zealand.
 Powell's Wanderings in a Wild Country.
 Inglis' Our New Zealand Cousins.
 Gorst's Maori King.
 Lady Martin's Our Maoris.
 Carleton's Life of Henry Williams, 2 vols.

160 Bird-skins, 25 Mammals, 30 Reptiles, 25 Fishes. In exchange from the Imperial Museum of Natural History, Florence.
 Specimens of *Sula melanops* and *Procellaria sp.* from the Kermadec Islands. Captain Fairchild.
 Skins of *Phaeton* and *Procellaria sp.*, Collection of Birds' Eggs. T. Bell, Kermadec Islands.
 Skin of Orange Dove (*Chrysena sp.*) from Fiji. H. C. Choyce.
 Skin of *Miro Traversii*. A. Reischek.
 Two skins of Utick (*Sphenacrus*). F. J. Symons.
 Skin of Bittern. D. M. Gubb.
 Skin of Weka. A. Williams.
 Skins of Orang-Utan, Proboscis Monkey, Lemur, Sun Bear, Pigmy Deer, Argus Pheasant, and other Bornean Animals. Purchased from Mr. C. F. Adams.
 New Zealand Birds' Eggs. G. C. Munro.
 Cranium of Native of Solomon Islands. O. Humphreys.
 Cranium of Native of New Caledonia. Dr. Cross, H.M.S. Diamond.
 Specimen of *Scorpena sp.* E. Carroll.
 Rock Scorpion from Ceylon. G. C. Stanwell.
 New Zealand Shells. D. Jones.
 Leaf Insect from Fiji. H. G. H. White.
 Specimens of *Pecten pallium*. C. Partridge.
 New Zealand Land Shells. Captain Fairchild.
 New Zealand Land Shells. J. Webster.
 Rock Specimens from the Kermadec Islands. Captain Fairchild.
 Set of Silver and Gold Ores from Te Aroha. The Te Aroha Silver and Gold Mining Company.
 Auriferous Quartz from Inangahua. N. Bollerston, per R. W. Raithby.
 Stibnite from the Great Barrier Island. S. Percy Smith.
 Quartz with Dendritic Markings. T. L. White.
 Crystallised Quartz from Waihi. S. T. George.
 Silicified Wood. A. Smith.
 Ammonites and other Fossils from Whangaroa. R. Bell.
 Large collection of Ethnological Specimens from the Admiralty Islands and neighbouring localities. Purchased from Mr. G. Stuart.
 Nineteen Maori Carvings. Deposited by Captain Mair.
 Maori Flax-Beater. W. Fidler.
 Maori Stone Adzes. A. Smith.
 Native Basket and Mat (Australian). Rev. H. Holden.
 Silver Coins. P. Black.
 Silver Coins. A. Lecoq.

LIST OF MEMBERS,

For the Year ending March 31, 1889.

[HONORARY AND LIFE MEMBERS DISTINGUISHED THUS *]

Adams, J., B.A., Thames	Cameron, R., Auckland
Aickin, G., Auckland	Campbell, H.
Aitken, W. "	Campbell, J. L., M.D., Auckland
Aldis, Prof. "	Campbell, Rev. J., Ponsonby
Allom, A. J., Thames	Carr, R. C., Remuera
Alexander, C. Auckland	Chambers, J., Auckland
Alexander J. M., Auckland	Champtaloup, E., Auckland
Atkin, W., Tamaki	Cheal, P. E., Thames
	Cheeseman, T. F., F.L.S., Auckland
Baber, J., C.E., Remuera	Ching, T., Parnell
Bagnall, L. J., Thames	Clark, A., Remuera
Bakewell, J. H., M.D., Auckland	Clark, J. M., Remuera
Baker, Rev. S. W., Auckland	Clark, M. A. "
Ball, T., Onehunga	Clayton, W. T., Auckland
Ball, W. T., Auckland	Cochrane, W. S. "
Barber, H. P., Parnell	Coleman, W. C., Parnell
Barstow, R. C., Epsom	Combes, F. H., Auckland
Bartley, E., Devonport	Cooke, C. E. "
Bates, Rev. J., Devonport	Coombes, S. "
*Bates, T. L., Newcastle, N.S.W.	Coom, J., C.E. "
Batger, J., Auckland	Cooper, C. "
Beerc, D. M., C.E., Ponsonby	Cooper, T. "
Beetham, A., Henderson	Cowie, Rt. Rev. W. G., D.D., Bishop of Auckland
Bell, Dr., Auckland	Cozens, G., Auckland
Bell, E., Auckland	Craig, Mrs. E. "
Berry, W., Auckland	Cranwell, R. "
Bond, J. H. R., M.D., Auckland	Cranwell, T. "
Bourne, C. F., M.A., "	Cruickshank, D. B., Auckland
Boylan, J. F., C.E. "	Cussen, L., Hamilton
Brett, H. "	
Brigham, J. M.	Darby, P., Auckland
Brock, A.	Davy, T. G., M.R.C.S.E., Ponsonby
Broun, Capt. T., F.E.S., Drury	Dawson, F. W., M.R.C.S.E., Auckland
Brown, Prof. F. D., Auckland	Dignan, Hon. P., Auckland
Buchanan, John "	Douglas, C. "
Buchanan, J. "	Dufaur, E. T. "
Buchanan, W. Devonport	
*Buckland, A., Auckland	Edson, J., Devonport
Buckland, W. F., Remuera	Edgecumbe, F. H., Ngaurawahia
Buddle, T., Auckland	Errington, W., C.E., Auckland
Burgess, E. W., Devonport	Ewington, F. G. "
*Burton, Capt., London	Erson, L., M.D., "
Burton, W., Auckland	

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Fallon, D., Auckland
Farmer, J., London
Fenton, F. D., Kaipara
Fidler, W., Auckland
Firth, J. C., Auckland
Firth, W. T., Matamata
Fraser, G., Auckland

George, C. S., Auckland
George, S. T., Parnell
Gillies, His Hon. Justice, Auckland
Goldie, D., Auckland
Goldie, W.
Goldsmith, E. C., Tauranga
Goodfellow, W., Otara
Gorrie, W., Auckland
Grace, L. M., Taupo
Graham, W. K., London
Gray, A., Remuera
Grey, J., Auckland
Grey, C.
Greenway, H. F., Auckland
Gulliver, Rev. E. H., M.A.,
Auckland

Haines, C. H., M.D., F.R.G.S.,
Auckland
Hammond, W. F., Auckland
Hardie, J. "
Harding, S., C.E. "
Harker, N. "
Haszard, H. D. M. "
Haultain, Hon. Col. "
Hay, J. "
Heinitz, R. "
Heather, A. "
Henton, J. S. "
Herepath, P. "
Herepath, S. M. "
Hesketh, E. "
Herbert, T., Parnell
Hill, Rev. J. S., Auckland
Hill, W. J. "
Hobart, J. B. "
Hobbs, R., M.H.R., Pokeno
Honeyman, J.H., M.D., Auckland
Howard, J. "
Hunt, R. R. "
Hunter, A. J., C. E. "

Ireland, F., Auckland

Johnson, H. D., Rotorua

Kenderdine, J., Auckland
Kidd, A. "
Kidd, Rev. R., LL.D., Auckland
*Kirk, T., F.L.S., Wellington
*Kitt, T. W., Auckland
Lamb, J. "
Lanigan, Pierce, Auckland

Larkins, F., London
Larkworthy, F., London
*Leaf, C. J., F.L.S., F.G.S., London
Lennox, J. M., Auckland
*Lennox, N. G., Sydney
Leys, T. W., Auckland
Lodder, W. "

Macfarland, R. J., C. E., Ellerslie
Mackechnie, E. A., Auckland
Mackenzie, D. H. "
Macky, T. "
MacLaughlin, W., Papatoitoti
MacMillan, C. C., Auckland
Mahoney, T. "
Mair, Capt. G., Tauranga
Mair, R., Whangarei
Mair, Major W. G., Auckland
Martin, J., F.G.S. "
Masfield, T. T. "
*Meinertzhagen, F. M., Napier
McColl, J., Newmarket
McCullough, W., Auckland
McLaurin, J. "
Moat, W. P., Mahurangi
Moody, T. P., Kawakawa
Morton, H. B., Auckland
Morrin, T. "
Monro, H. A. H., Parnell
Montgomery, A., Thames
Murdoch, D. L., Auckland
Murray, T. L., Thames

Nathan, L. D., Auckland

Orchiston, W., Auckland
O'Rorke, Sir G. M. "
Owen, G. B. "
Owen, G. W. "

Paul, Rev. J. S., Onehunga
Peacock, T., M.H.R., Auckland
Percival, H., Parnell
Pierce, G. P., Auckland
Plumley, E. A. "
Pond, J. A. "
Posnett, Prof. H. M., F.L.S.,
Auckland
Purchas, Rev. A. G., M.R.C.S.E.,
Auckland
Purchas, A. C., M.D., Auckland

Rawlings, M., Parnell
Reid, J., Auckland
Ring, C., Auckland
Robertson, J. "
Rose, R. "
Russell, Jas. "
Russell, J. B., Auckland
*Russell, T., London
Rutherford, J. S., Kamo

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Sanders, C. W., Parnell
Seegner, C., Auckland
Shaw, H. "
Sera, J. M. "
Shrewsbury, A., Parnell
Simpson, F., Whangarei
Sinclair, A., Auckland
Smith, H. G. S. "
*Smith, S. P., F.R.G.S., Parnell
Speight, W. J., Auckland
Steel, T., Melbourne
Stewart, J., C. E., Auckland
Stockwell, W., M.R.C.S.E., Auckland

Taylor, A. K., Mount Albert
Tebbs, Rev. Wm., Auckland
Thomas, Professor A. P., F.L.S.,
Auckland
Thorne, G., jun., Auckland
*Tinne, H., London
Tinne, T. F. S., Auckland

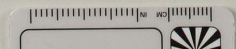
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Urquhart, A. T., Karaka

Vaile, S., Auckland
Von Sturmer, E. S., Auckland

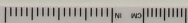
Wade, H. G., Auckland
Wallis, Rev. Dr. "
Walsh, Rev. P., Waimate
Waymouth, J., Auckland
Webb, F. R. "

Webster, J., Hokianga
*Weetman, S., F.R.G.S., Gisborne
Whitaker, E. H., Auckland
Whitaker, Sir F. "
Wilkins, Dr. "
Will, W. "
Williams, Ven. Archdeacon W. L.,
Gisborne
Williamson, C., Auckland
Wilson, H. M., Warkworth
Wilson, W. S., Auckland
Winks, J., Parnell
*Withy, E., Parnell
Worthington, H., Auckland
Wright, F. W., L.M.B., Toronto
Parnell

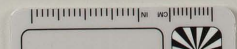
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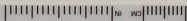
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